03050105-160

(South Pacolet River)

General Description

Watershed 03050105-160 is located in Spartanburg County and consists primarily of the ***South Pacolet River*** and its tributaries. The watershed occupies 58,528 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Cecil series. The erodibility of the soil (K) averages 0.28, and the slope of the terrain averages 9%, with a range of 2-25%. Land use/land cover in the watershed includes: 60.7% forested land, 21.7% agricultural land, 11.9% urban land, 3.4% water, 1.7% scrub/shrub land, and 0.5% barren land.

The South Pacolet River originates near Glassy Mountain and accepts drainage from Green Creek, Belue Creek, Jamison Mill Creek, Spivey Creek (Clear Branch), and Motlow Creek (Easley Creek, Holston Creek) before forming Lake Bowen (Alexander Creek, Turkey Creek). The South Pacolet River flows out of Lake Bowen to then form the South Pacolet River Reservoir #1 (Mud Creek) which is also known as Spartanburg Reservoir #1 (301 acres). There are numerous ponds and lakes in this watershed (totaling 1,483.3 acres) and 94.2 stream miles. With the exception of the headwaters of the South Pacolet River downstream to Hwy. 116, which is classified TN, all streams in the watershed are classified FW.

Water Quality

Station #	Type	Class	Description
B-720	BIO	FW	SOUTH PACOLET RIVER AT S-42-183
B-103	S	FW	SPIVEY CREEK AT S-42-208, 2.5 MI SSE OF LANDRUM
B-104	BIO	FW	SPIVEY CREEK AT SR 209
B-790	BIO	FW	MOTLOW CREEK AT SR 888
B-302	S	FW	SOUTH PACOLET RIVER AT S-42-866, 1 MI SE CAMPOBELLO
B-340	W	FW	LAKE BOWEN NEAR HEADWATERS, 0.4 KM W OF S-42-37
B-339	W	FW	LAKE BOWEN IN FOREBAY NEAR DAM
B-113	S	FW	SPARTANBURG RESERVOIR #1 ON S-42-213 NE OF INMAN

South Pacolet River - There are two monitoring sites along the South Pacolet River. At the upstream site ***(B-720),*** aquatic life uses are fully supported based on macroinvertebrate community data. At the downstream site ***(B-302),*** aquatic life uses are also fully supported; however, a very high concentration of lead was measured in 1995. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand, total suspended solids, and turbidity suggest improving conditions for these parameters. Recreational uses are not supported at this site due to fecal coliform bacteria excursions.

Spivey Creek – There are two monitoring sites along Spivey Creek. At the upstream site ***(B-103),*** aquatic life uses are fully supported. There is a significant decreasing trend in pH. Significant decreasing trends in five-day biochemical oxygen demand and turbidity suggest improving conditions for these parameters. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions. At the

downstream site ***(B-104),*** aquatic life uses are fully supported based on macroinvertebrate community data.

Motlow Creek (B-790) – Aquatic life uses are partially supported based on macroinvertebrate community data.

Lake Bowen - Lake William C. Bowen is a 1600-acre impoundment on the South Pacolet River in Spartanburg County, with a maximum depth of approximately 41 feet (12.5 m) and an average depth of 15 feet (4.7 m). Lake Bowen's watershed comprises 82 square miles (212.6 km2). There are two monitoring sites on Lake Bowen ***(B-340, B-339).*** Aquatic life and recreational uses are fully supported at both sites.

Spartanburg Reservoir #1 (B-113) - Aquatic life uses are fully supported; however, there is a significant decreasing trend in dissolved oxygen. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are fully supported; however, there is a significant increasing trend in fecal coliform bacteria concentrations.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM ***FACILITY NAME*** ***PERMITTED FLOW @ PIPE (MGD)***	***NPDES#*** ***TYPE*** ***LIMITATION***
MOTLOW CREEK LINKS O TRYON GOLF COMMUNITY PIPE #: 001 FLOW: 0.024 WQL FOR DO,TRC,NH3N	SC0042684 MINOR DOMESTIC WATER QUALITY
SOUTH PACOLET RIVER SPARTANBURG WATER SYSTEM WWTP/SIMMS WWTP PIPE #: 001 FLOW: 0.004 (PHASE I) PIPE #: 001 FLOW: 0.012 (PHASE II)	SC0030279 MINOR DOMESTIC EFFLUENT EFFLUENT
SOUTH PACOLET RIVER SPARTANBURG WATER SYSTEM/SIMMS WTP PIPE #: 001 FLOW: 1.17 WQL FOR TRC	SCG643002 MINOR DOMESTIC WATER QUALITY
SOUTH PACOLET RIVER LITTLE ACRES SAND CO./S.PACOLET MINE PIPE #: 001 FLOW: M/R	SCG730178 MINOR INDUSTRIAL EFFLUENT
SPIVEY CREEK CITY OF LANDRUM/WTP PIPE #: 001 FLOW: 0.032 WQL FOR TRC	SCG645029 MINOR DOMESTIC WATER QUALITY

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME *FACILITY TYPE*	*PERMIT #* *STATUS*
POTEAT SHORT TERM C&D LANDFILL	422903-1301
C&D LANDFILL	----------

Land Application Sites

LAND APPLICATION SYSTEM *FACILITY NAME*	*ND#* *TYPE*
SPRAYFIELD	ND0067342
CAMPOBELLO-GRAMBLING SCHOOL	DOMESTIC

Mining Activities

MINING COMPANY *MINE NAME*	*PERMIT #* *MINERAL*
LITTLE ACRES SAND CO.	0805-83
SOUTH PACOLET RIVER MINE	SAND

Water Supply

WATER USER *STREAM*	*TOTAL PUMP. CAPACITY (MGD)* *RATED PUMP. CAPACITY (MGD)*
SPARTANBURG WATER SYSTEM	-------
SOUTH PACOLET RIVER RES.#1	64.0

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the Town of Campobello and a portion of the City of Landrum. I-26 bisects the watershed and some growth may result around interstate interchanges.